

FIGURE 1

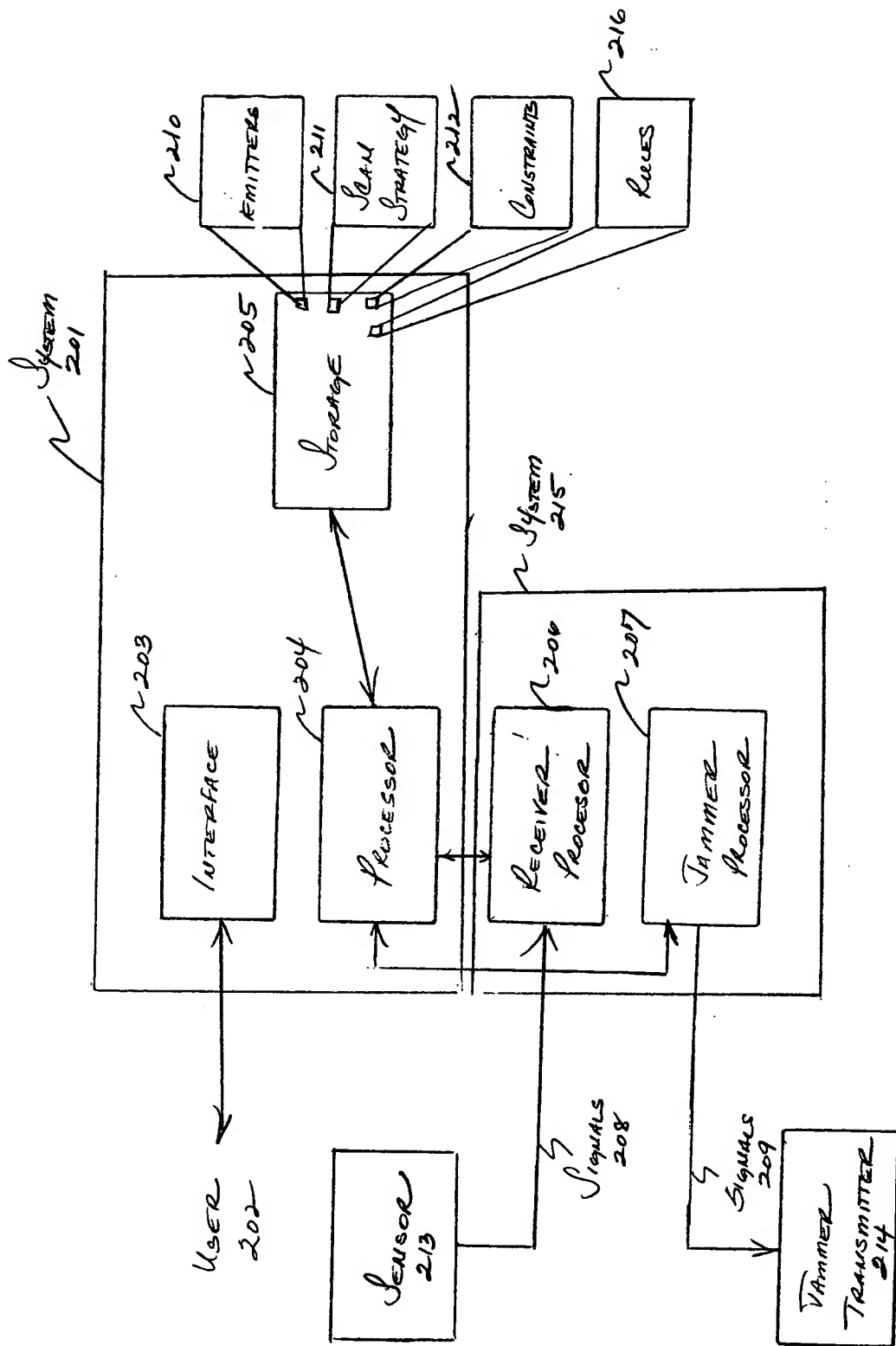
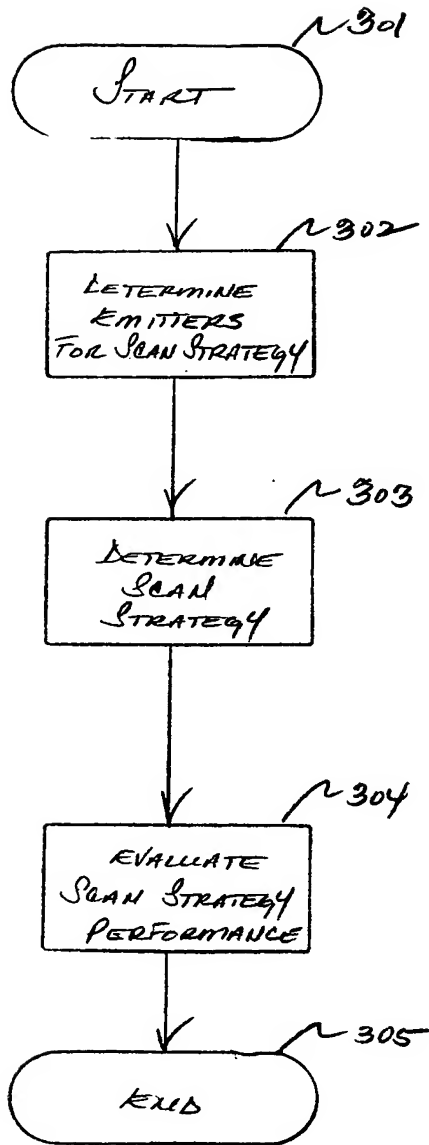


FIGURE 2



PROCESS
300

FIGURE 3

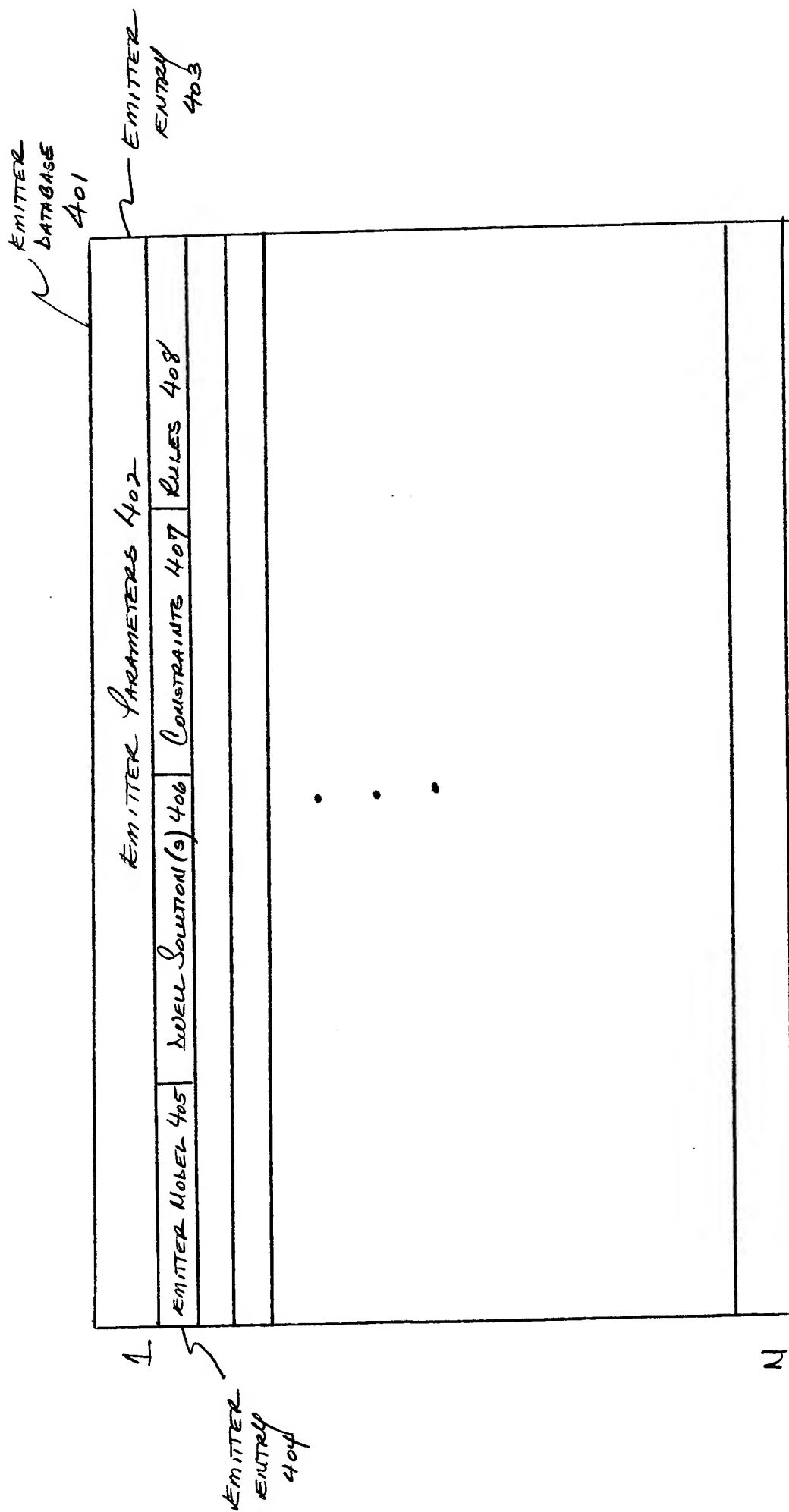


Figure 4

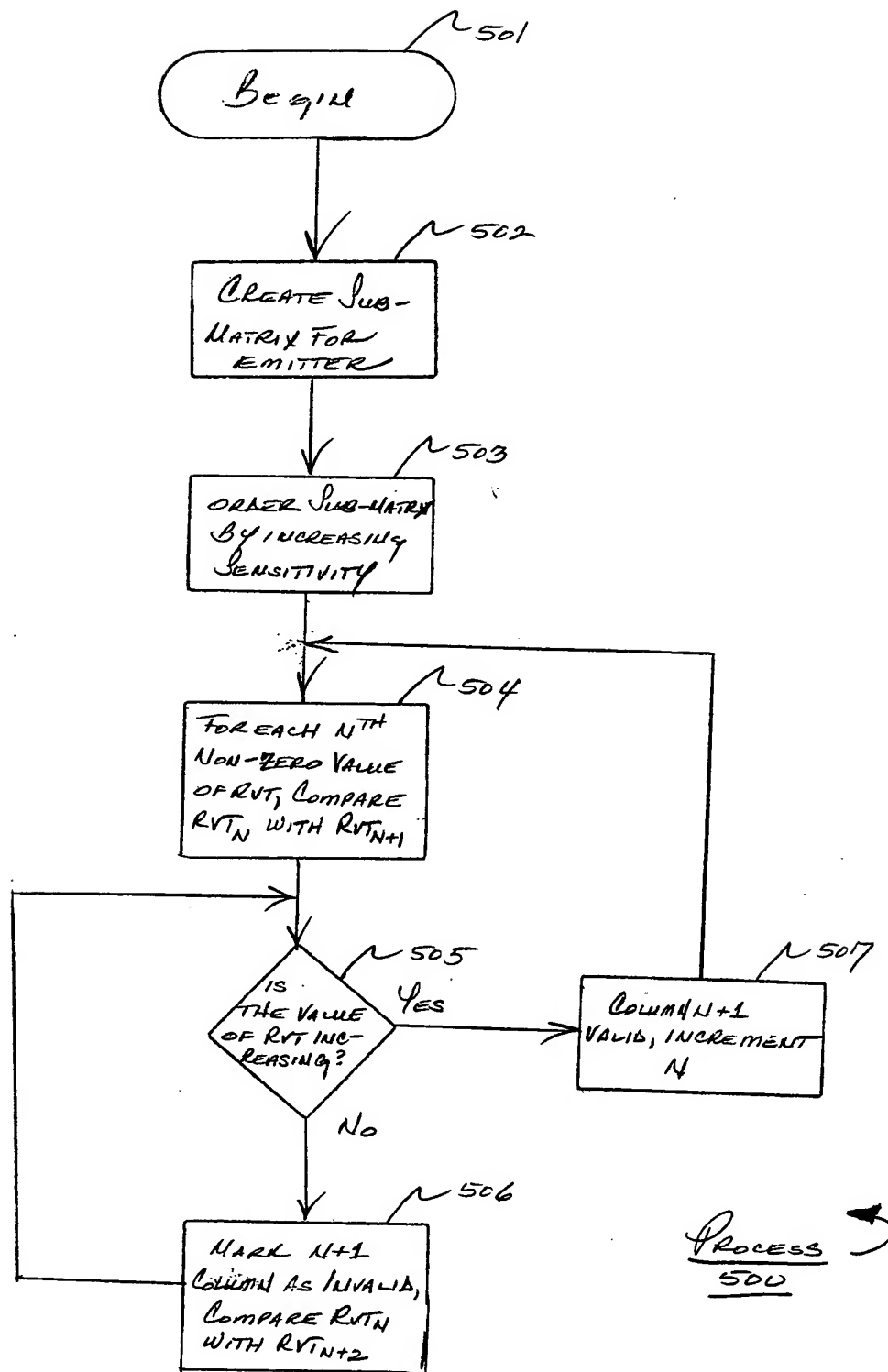


FIGURE 5

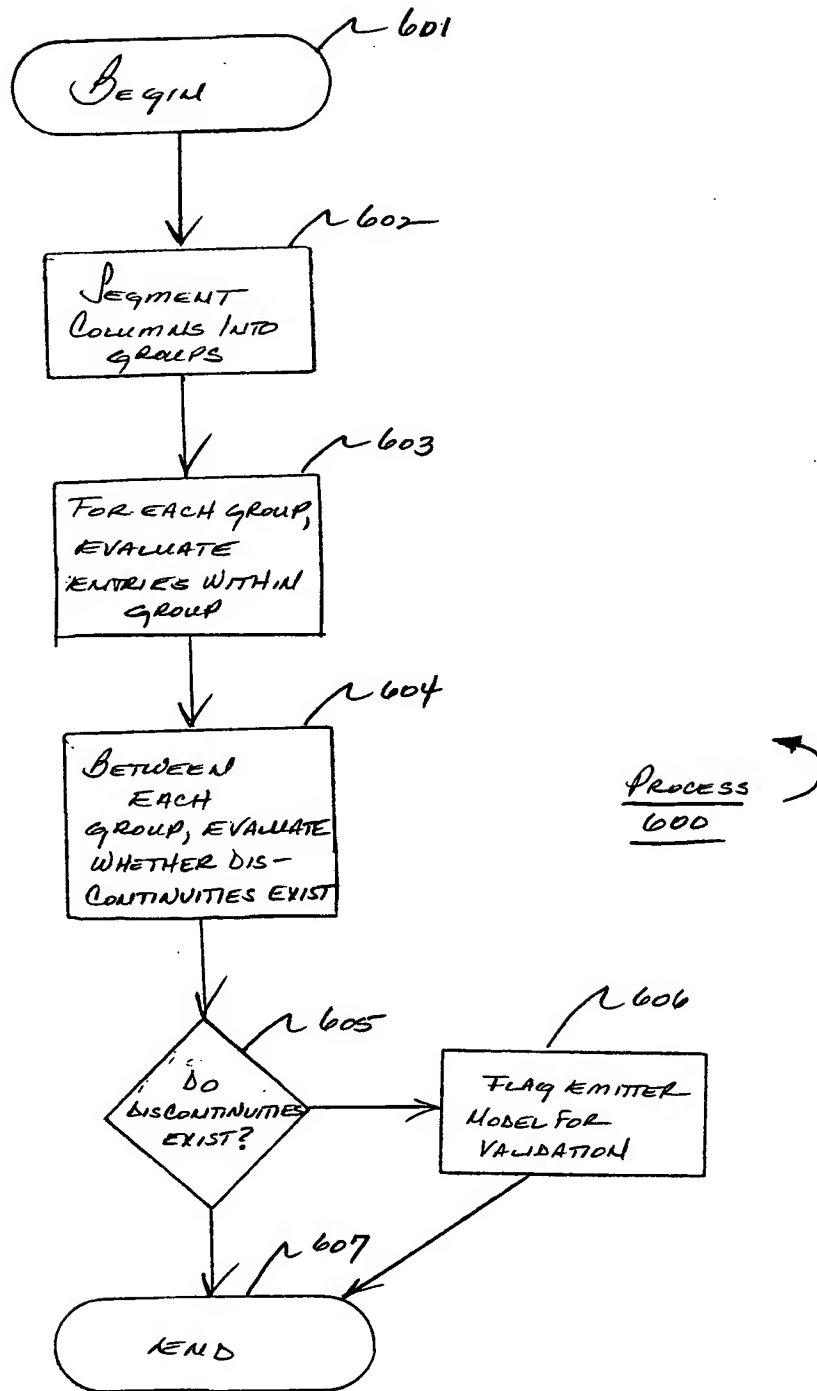


FIGURE 6

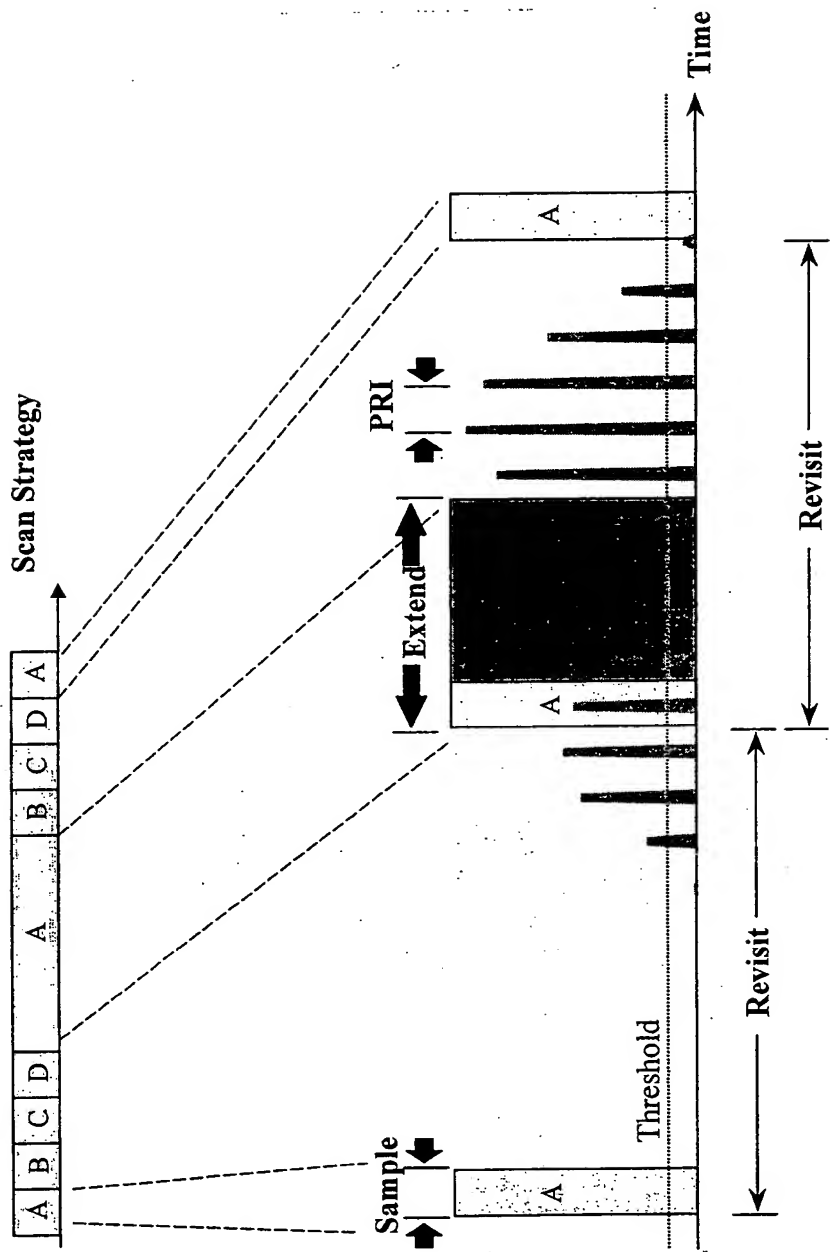
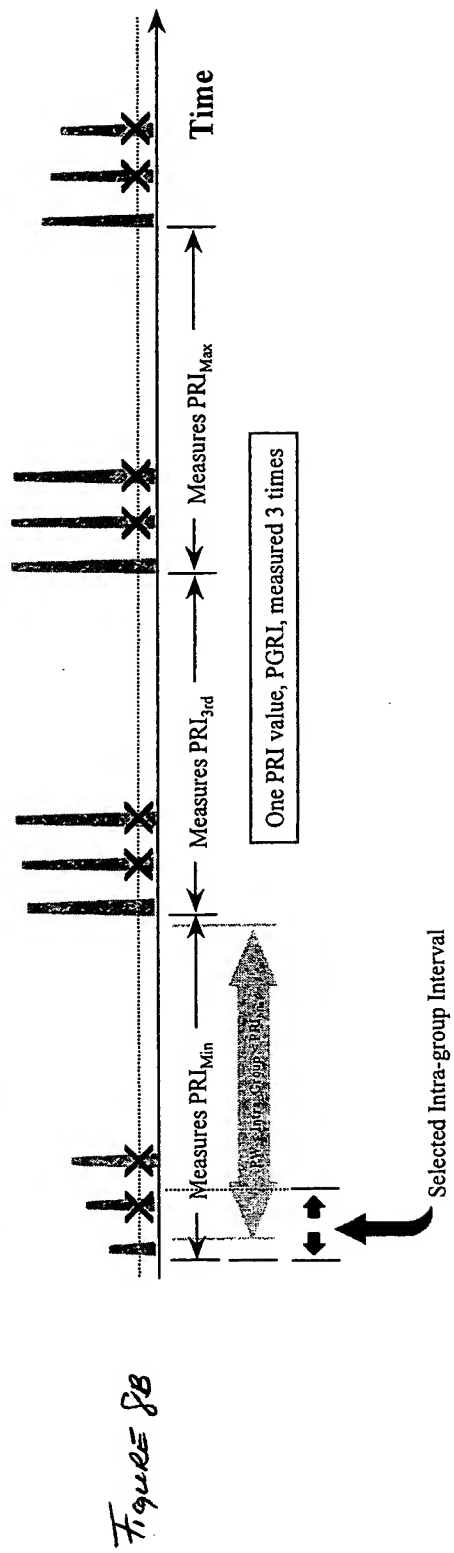
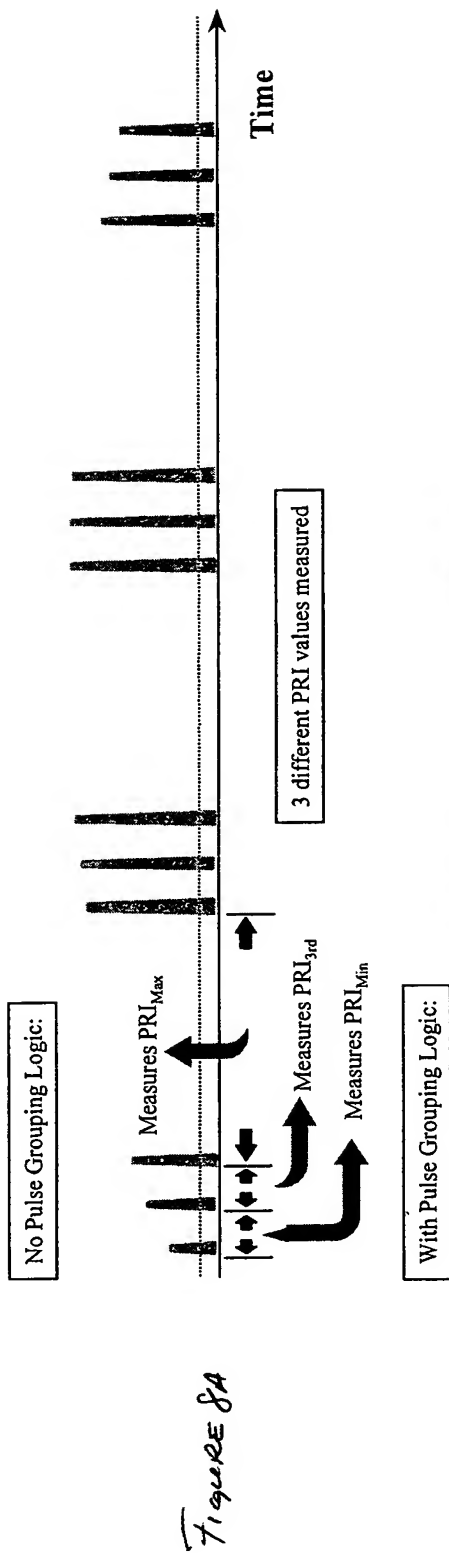


Figure 7



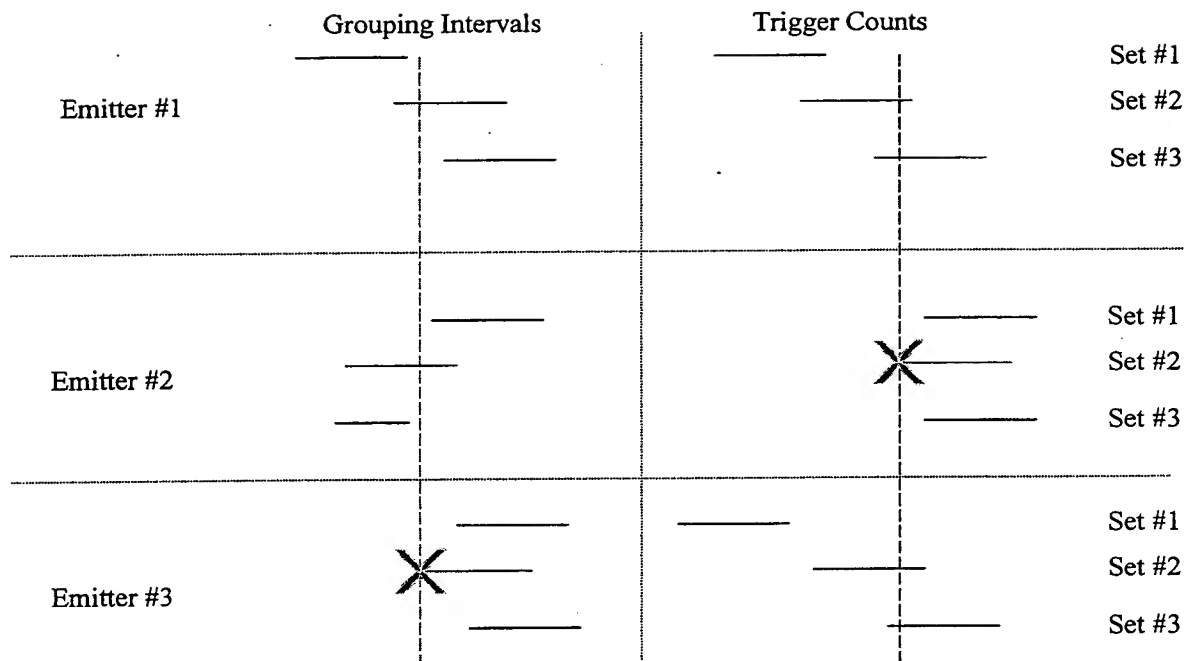
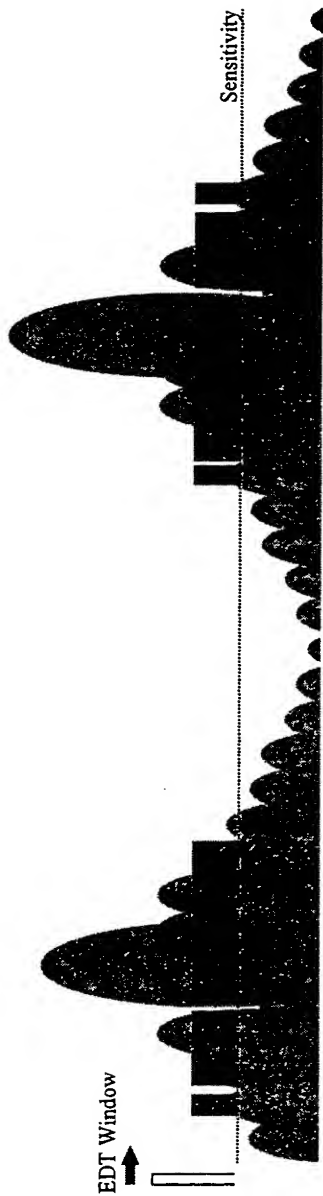


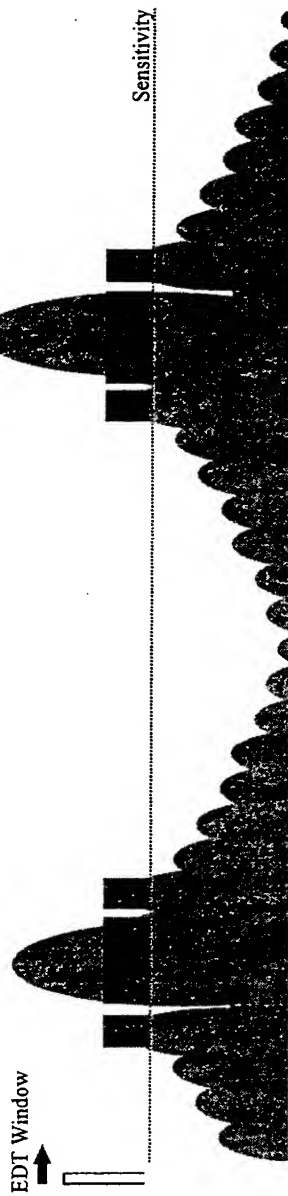
FIGURE 9

Figure 10A

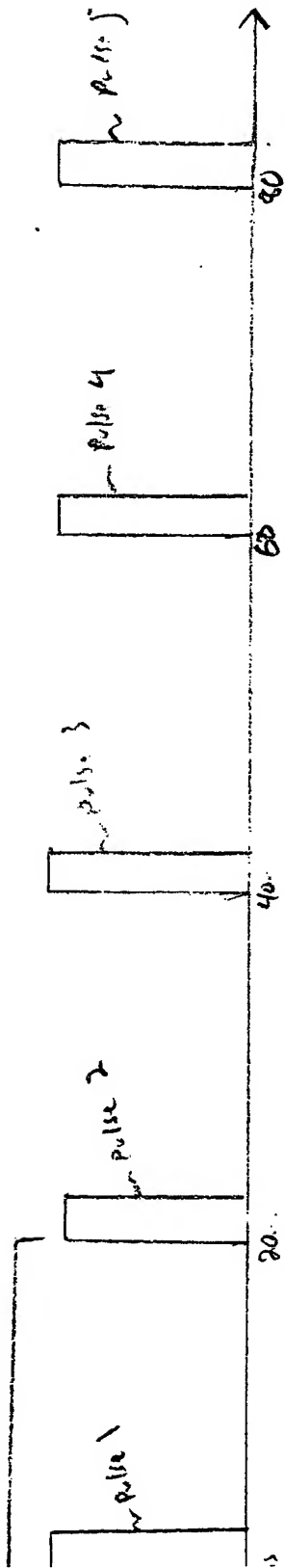


Discrete Illuminations (TIBS)

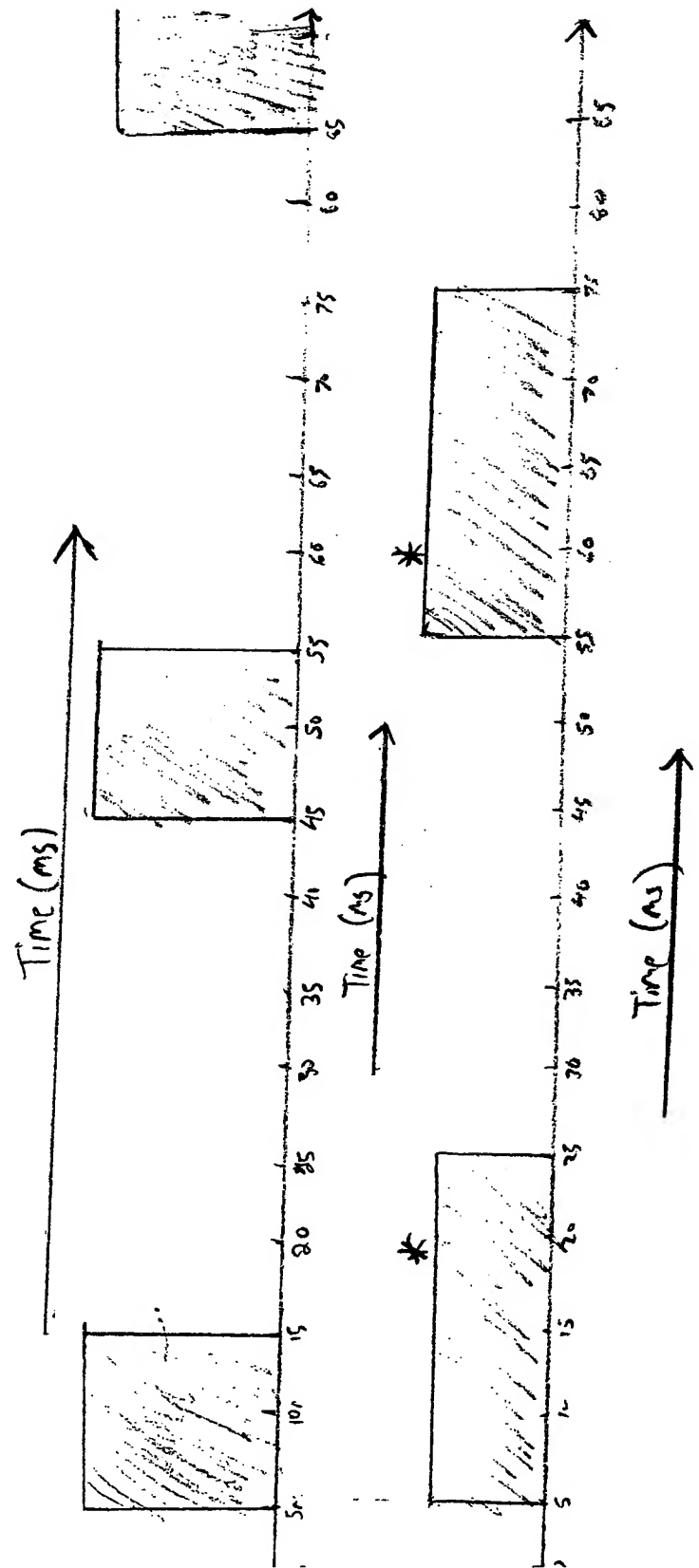
Figure 10B



PRI = 20ms



Emitter 3169



Solution 1
Drill Duration = 12ms
Revolution Time = 40ms

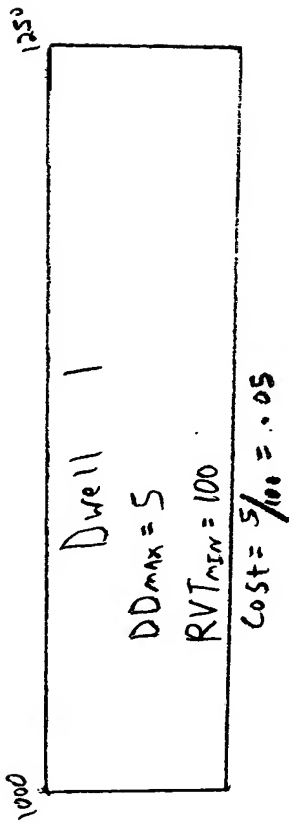
Solution 2
Drill Duration = 20ms
Revolution Time = 50ms

Figure 12

4000

Emitter Name	Detecting Antenna 250 MHz JP 15 MHz VDW RV T	Detecting Antenna 30 MHz ZF 15 MHz VDW RV T	RF Min (MHz)	RF Max (MHz)	Y ₀ MDT (ms)
E1	100 ns	650 ns	1000	1300	3
E2	100 ns	780 ns	1220	1350	5
E3	110 ns	330 ns	1510	1910	2
E4	130 ns	390 ns	1730	1860	4

Figure B



Solution 1

	1000	1050	1100	1150	1200	1250
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7
DDmax	DDmax	DDmax	DDmax	DDmax	DDmax	DDmax
3	3	3	3	3	3	3
RVTmax	RVTmax	RVTmax	RVTmax	RVTmax	RVTmax	RVTmax
650	650	650	650	650	650	650
Cost	Cost	Cost	Cost	Cost	Cost	Cost
$\frac{5}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650}$						

Solution 2

Total
Cost

$$\frac{31}{650} \approx .048$$

Figure 14A

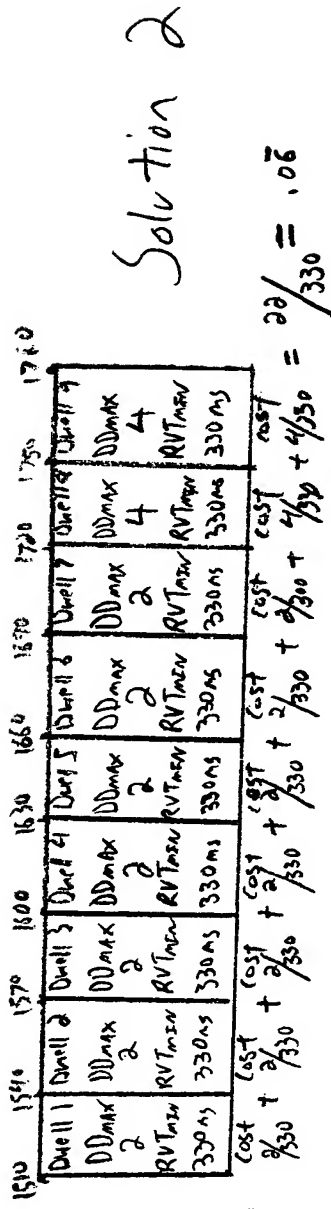
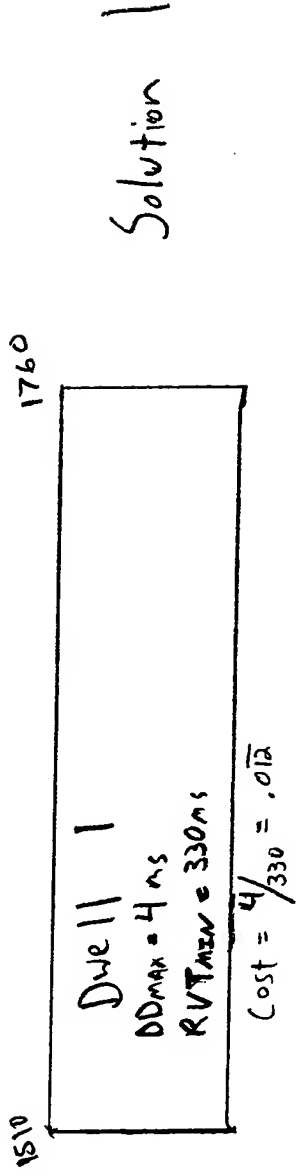


Figure 14B

Figure 15

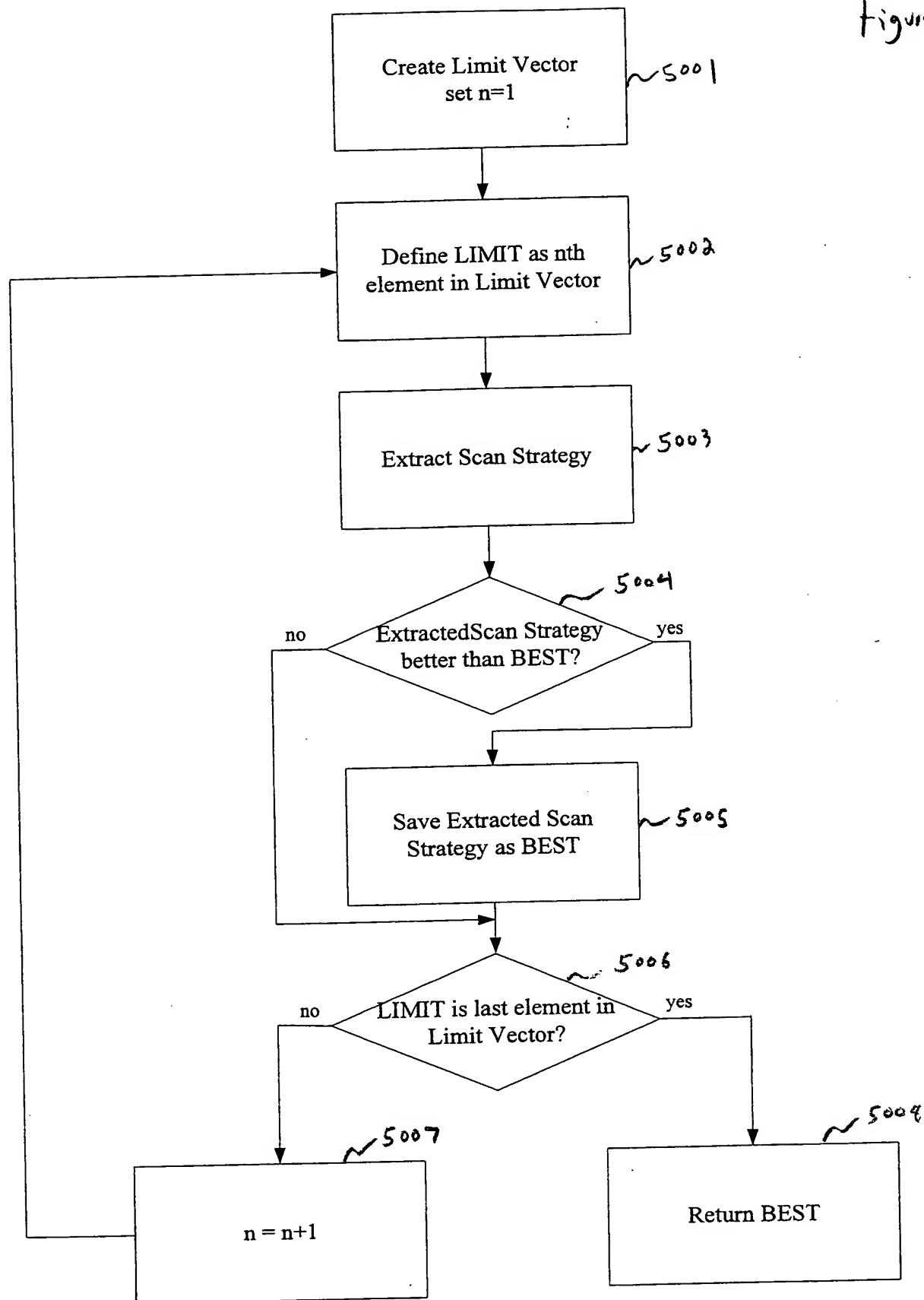
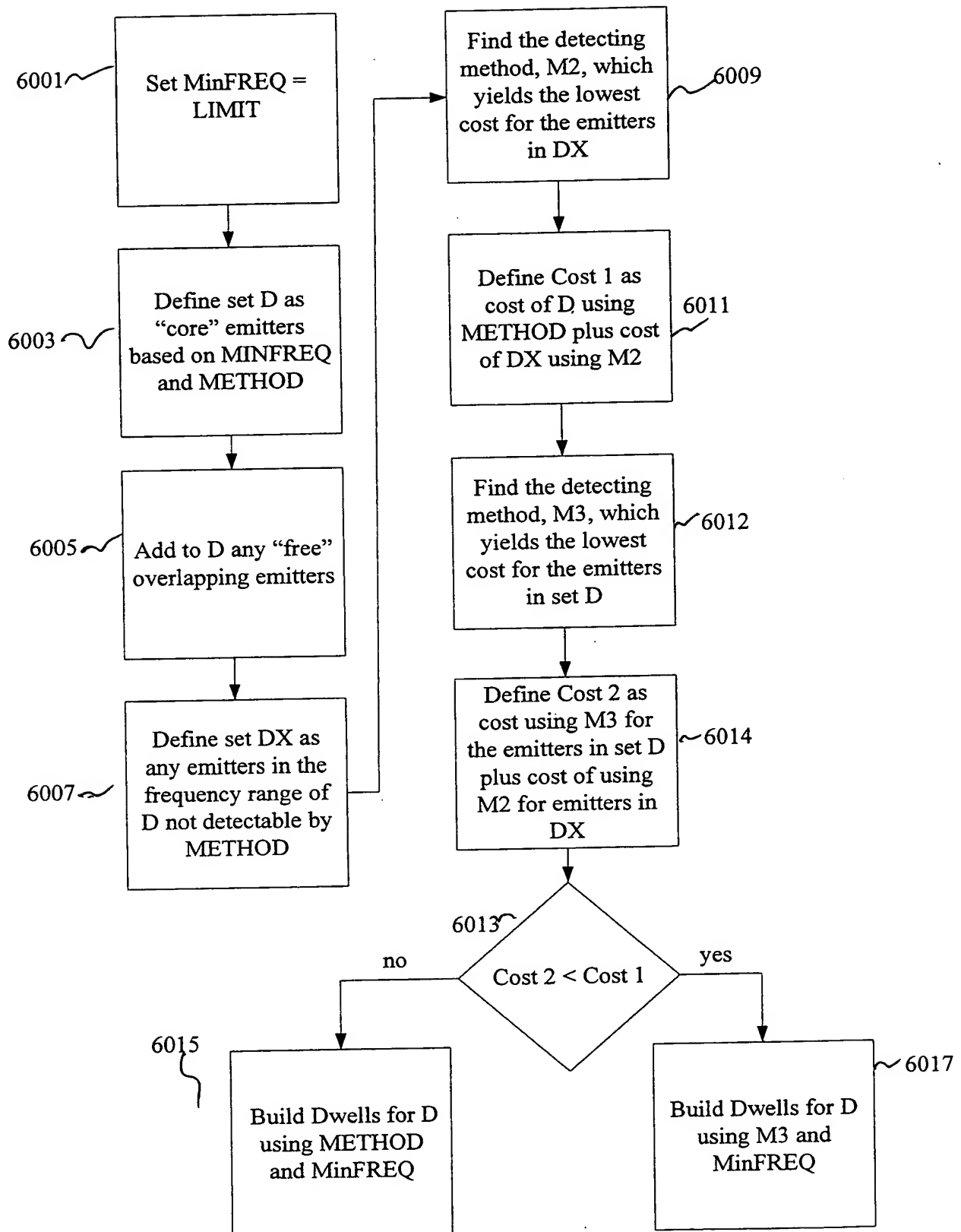


Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

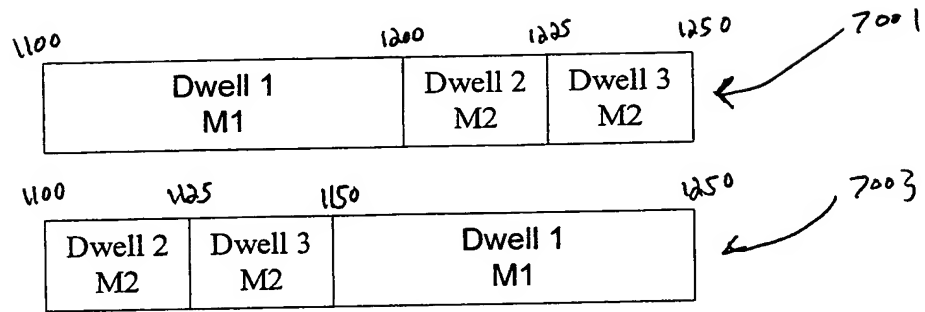
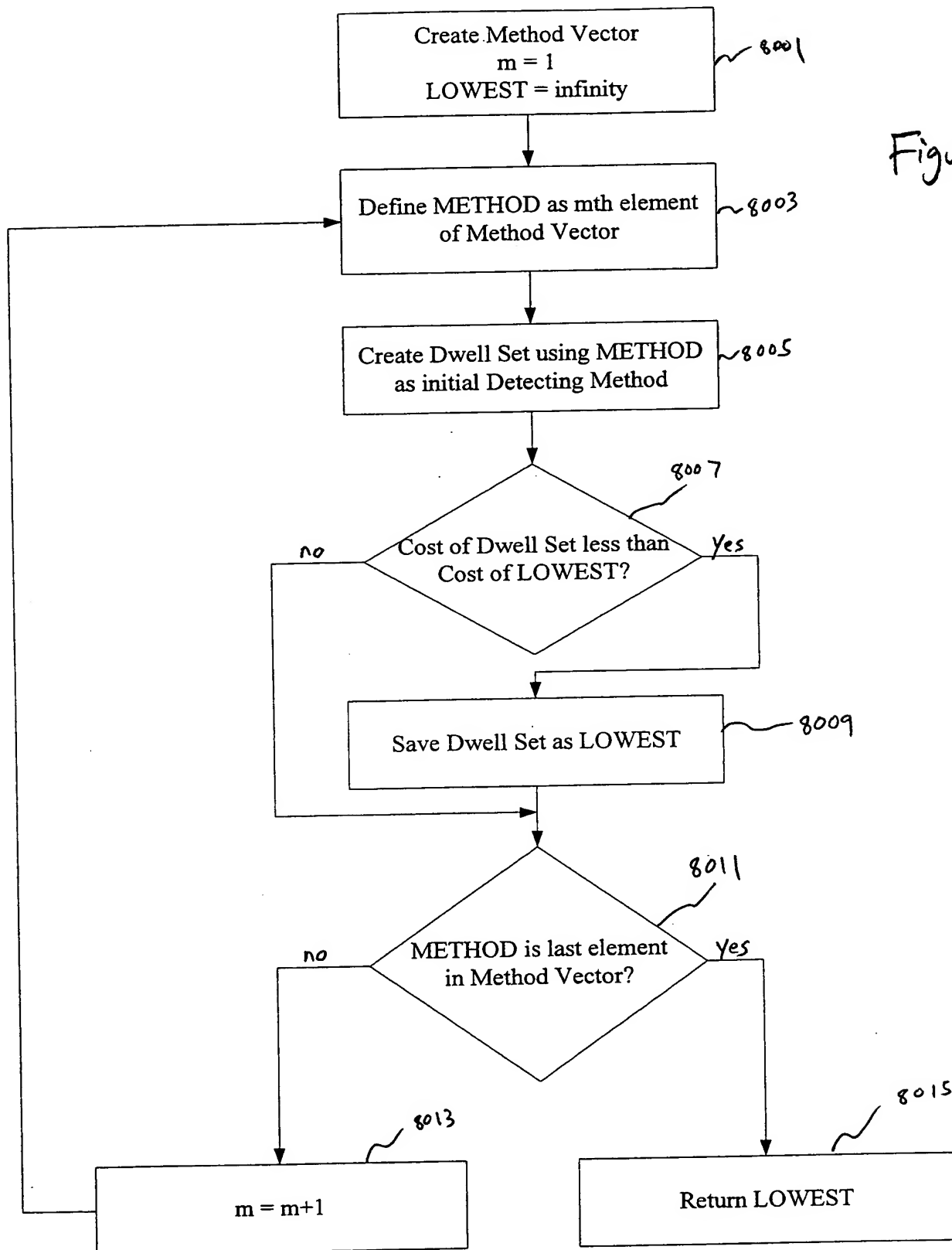


Figure 17

Figure 18



Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

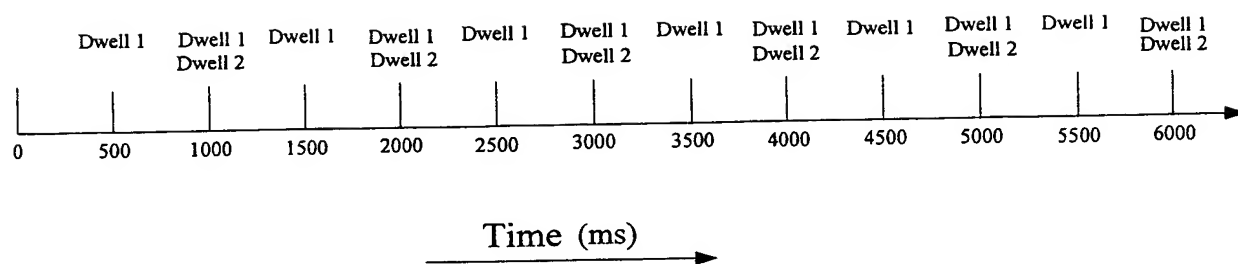


Figure 21

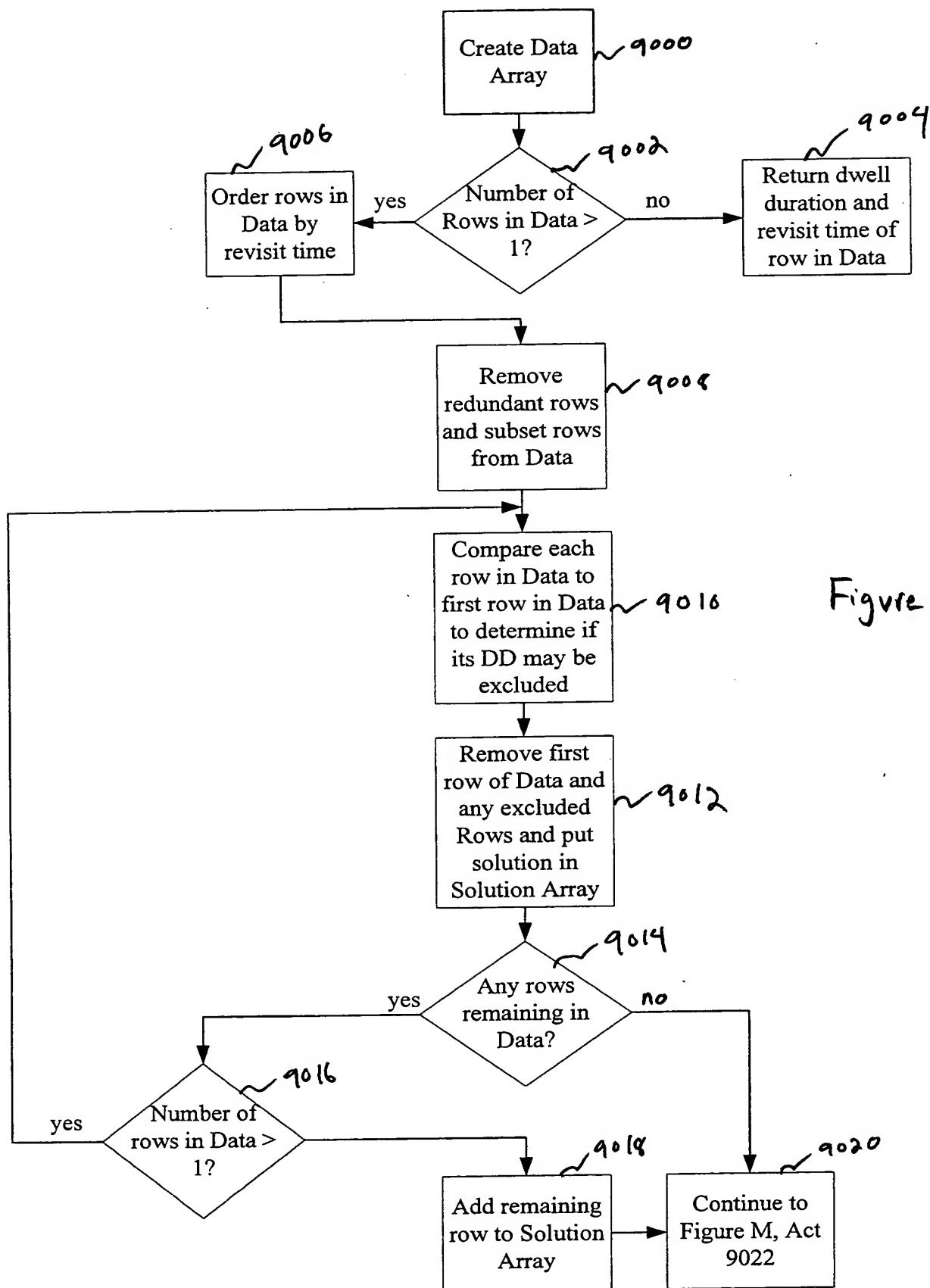


Figure 22

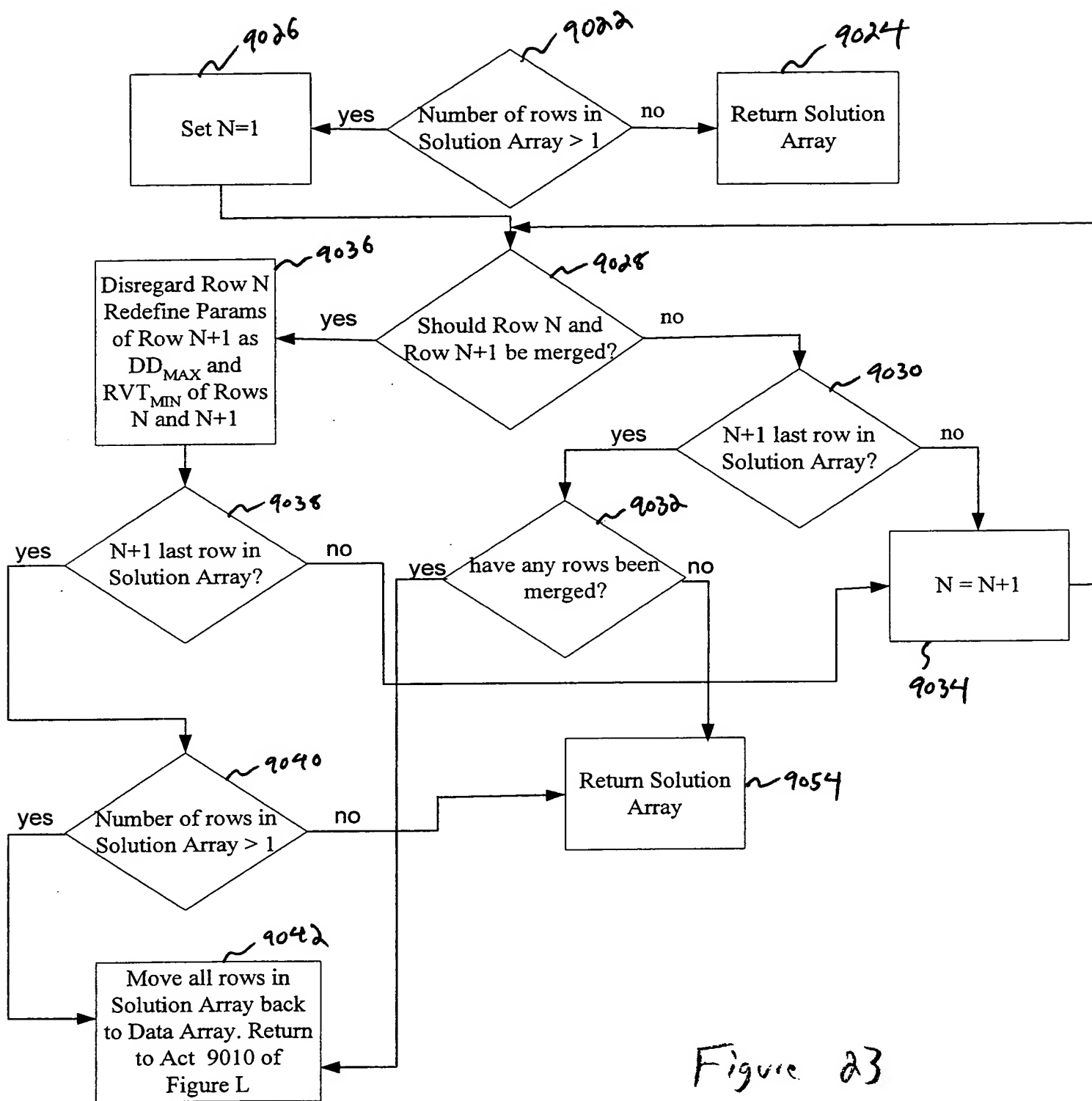


Figure 23

9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

9048
9049
9050

Figure 24B

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

9051
9052

Figure 24C

9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

9046

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

9044

Data		
MDT	EDT	RVT

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

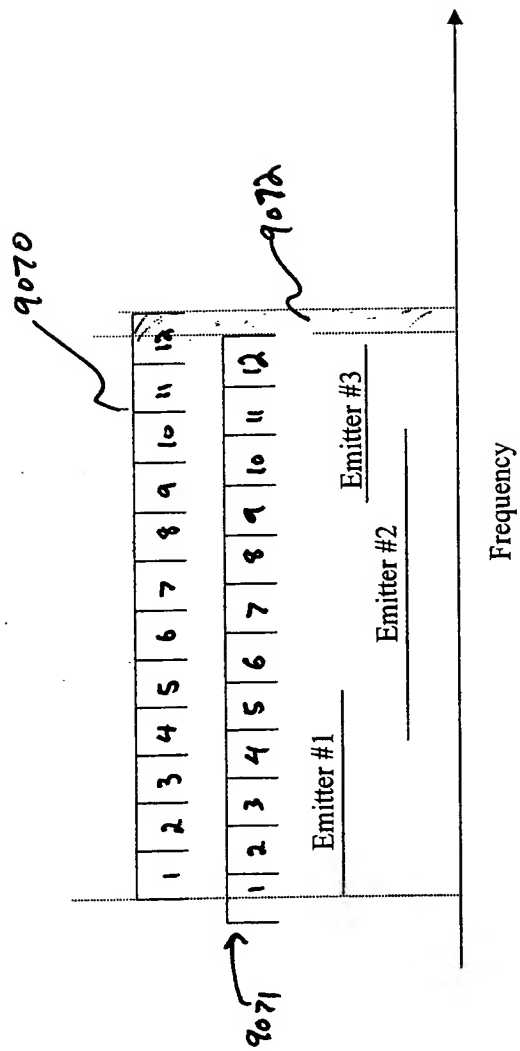


Figure 25

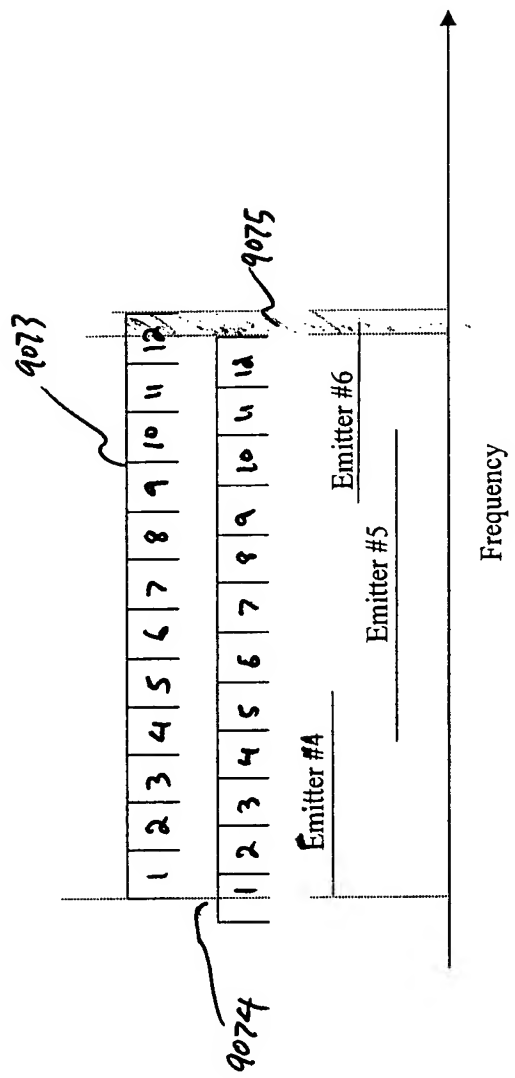


Figure 26

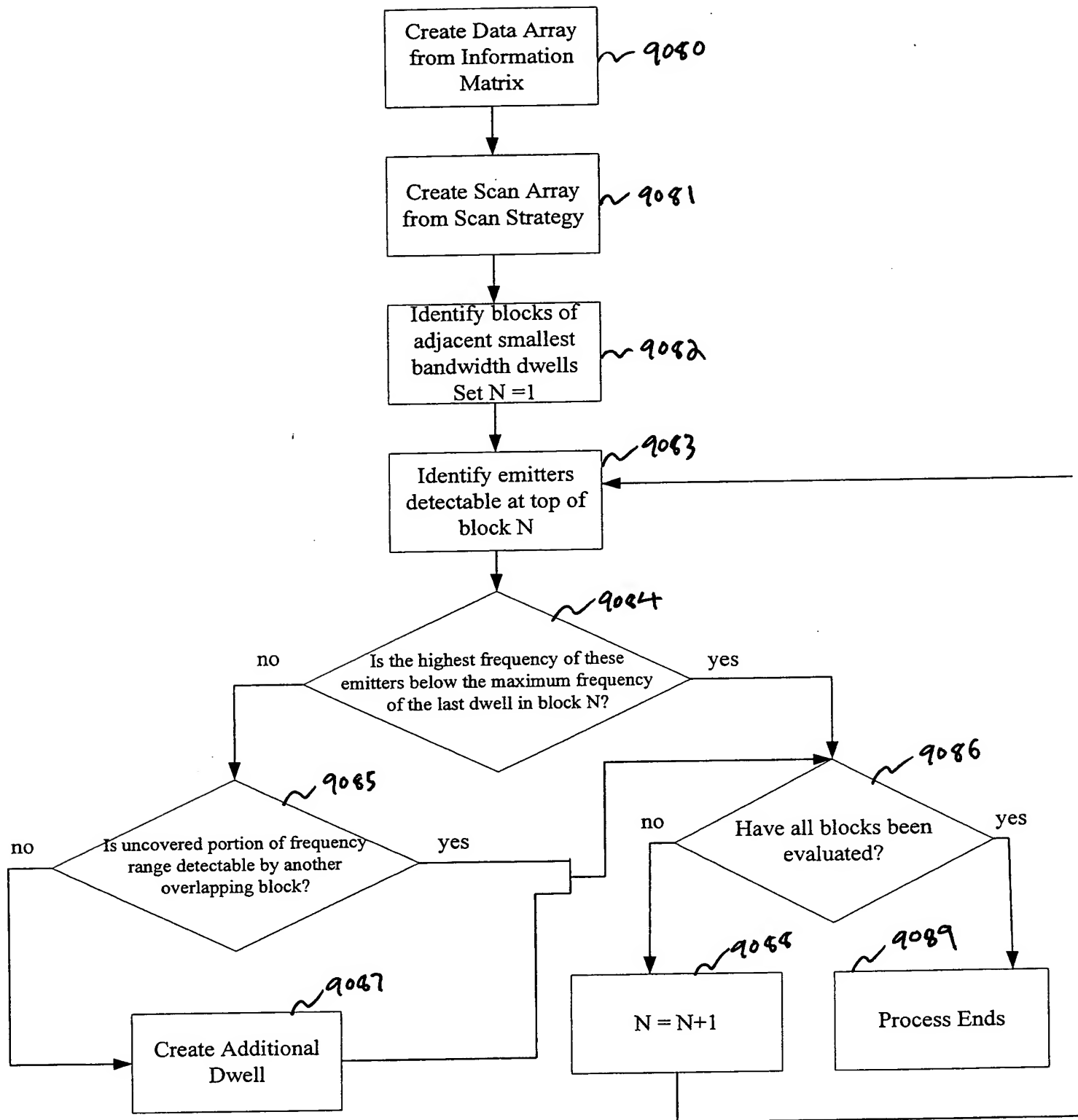


Figure 27

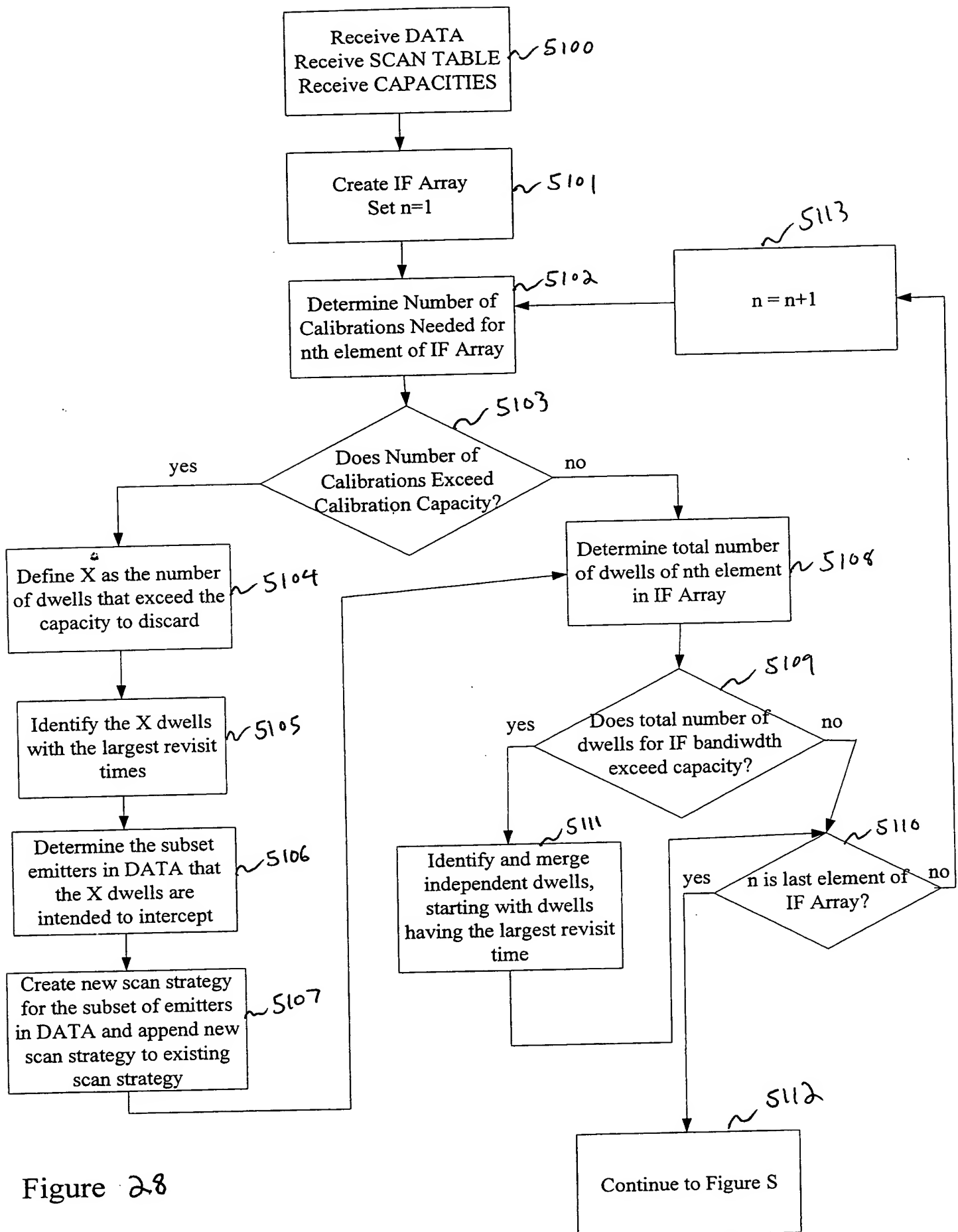


Figure 28

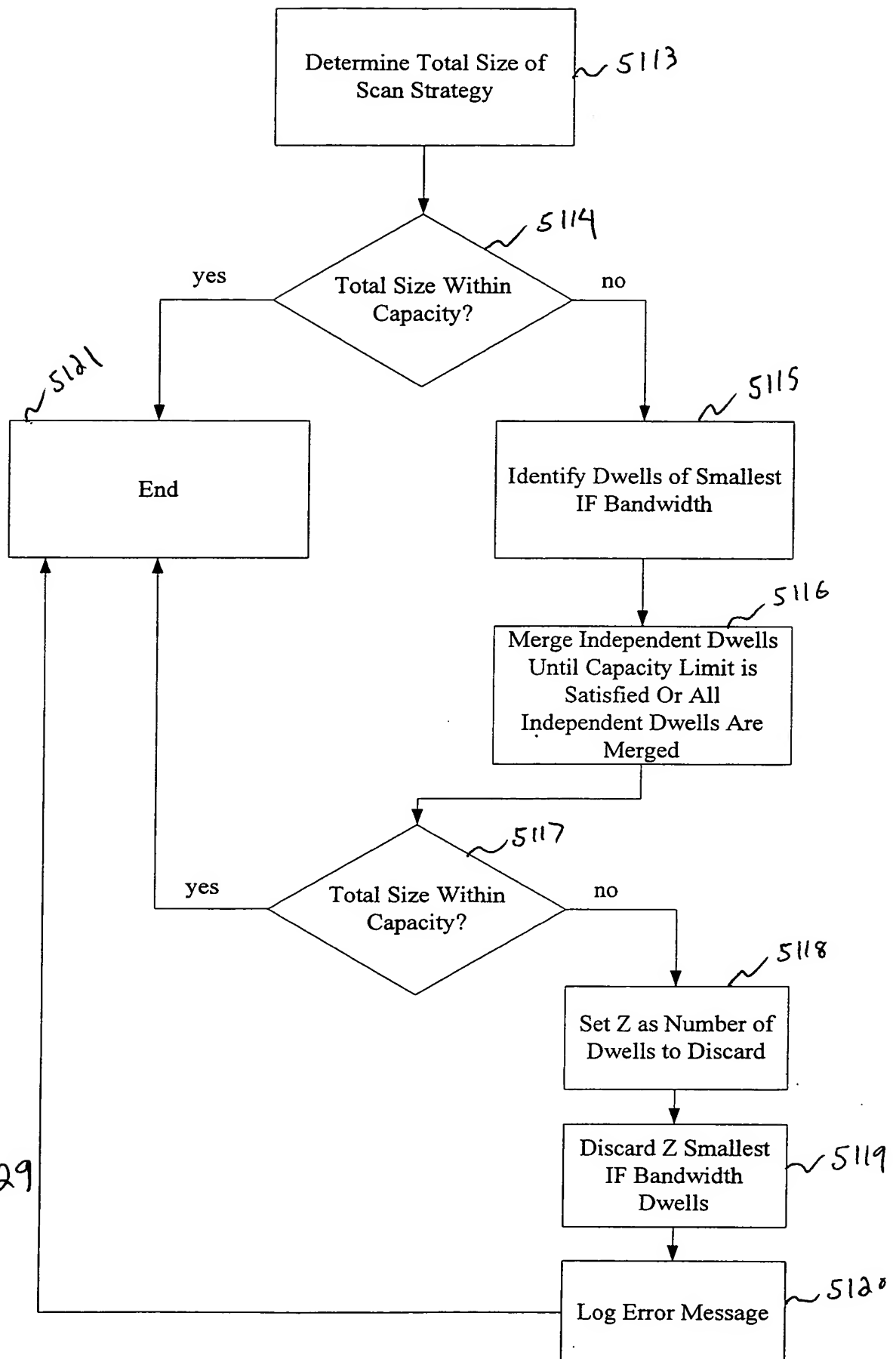


Figure 29

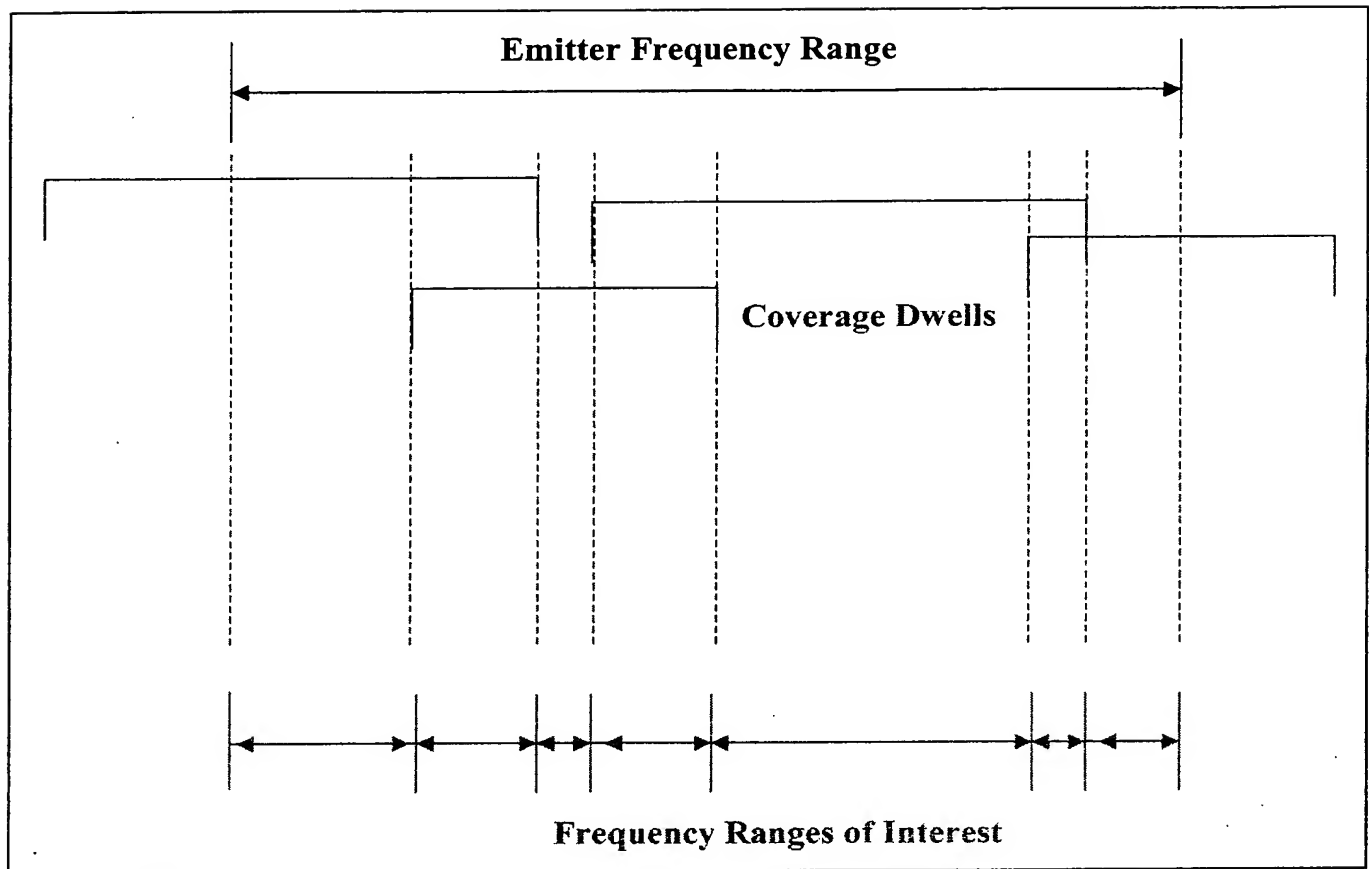


Figure 30

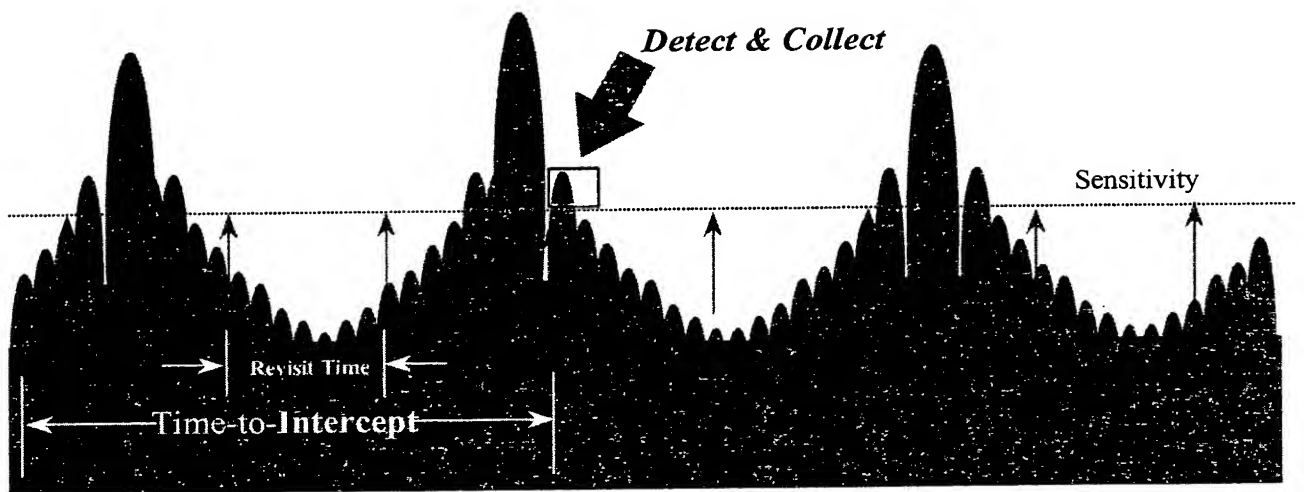


Figure 31

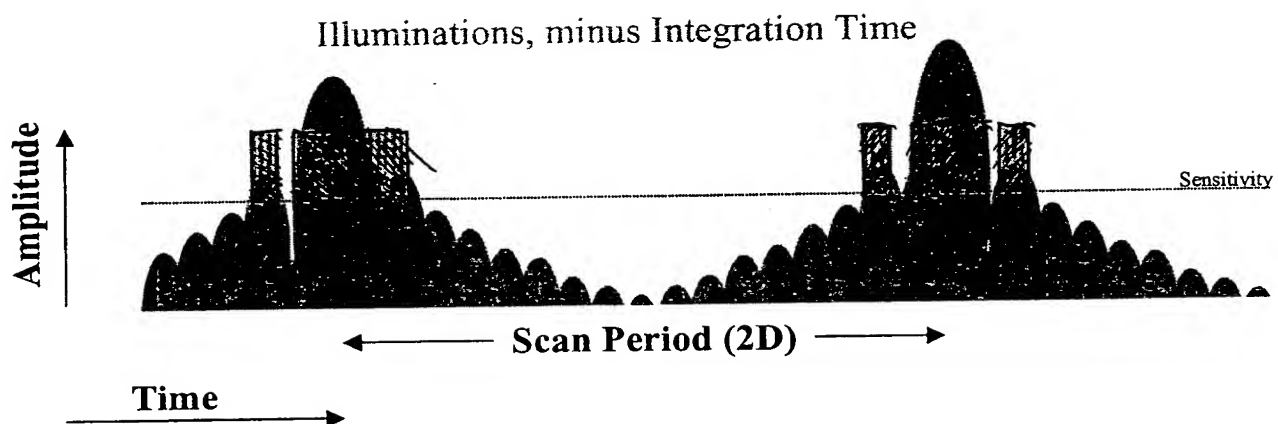


Figure 3a